

How the Site Has Changed and the Best Way for Nurses to Navigate It

Daryl Hodge, University of Liverpool

Conflict of Interest

In relation to this presentation I declare that I have no conflict of interest

The HIV, Hepatology, & PrEP Drug Interaction websites have received funding from Abbvie, Frontier, Gilead, Ipsen, & ViiV.



www.hiv-druginteractions.org



46,854 unique monthly users

220 countries and territories

9.26 million interactions searched

25+ guidelines around the world, including...



World Health
Organization



EACS
European
AIDS
Clinical
Society



British HIV Association

www.nhivna.org



Liverpool Drug Interactions – who are we?



2024
25th anniversary

2019 20th anniversary & cake!



www.nhivna.org

Post-pandemic...



28 years ago... (sorry)



1998: 1st HIV Charts





Today!!

www.nhivna.org

The extended traffic light system



No interaction expected



Potential weak interaction



Potential interaction



Do not coadminister



Analgesics		Indinavir	Ritonavir	Saquinavir	Nelfinavir
	aspirin	▲	▲	▲	▲
	paracetamol	▲	▲	▲	▲
NSAIDs	ibuprofen	▲	■	▲	▲
	piroxicam	▲	●	▲	▲
narcotic / morphinomimetic	dextropropoxyphene	■	●	■	■
	diamorphine	▲	■	▲	▲
	fentanyl	■	■	■	■
	meperidine (pethidine)	■	●	■	■
	methadone	■	■	■	■
	morphine	▲	■	▲	▲

	BIC/FTC/TAF	FTC/TDF PrEP	RTV
Ibuprofen	◆	■	◆
Multivitamins	■	◆	◆
Rifampicin (Rifampin)	●	◆	●
Tramadol	◆	◆	▲

How do you make the calls?

Table 1: Drug Interactions

Medicinal products by therapeutic areas	Interaction geometric mean change (%)	Recommendations concerning administration
Antiretroviral n Non-nucleoside Etravirine without inhibitors / Dolut		

Table 5. Established and Other Potentially Significant Drug Interactions for DOVATO: Alterations in Dose May Be Recommended Based on Drug Interaction Trials or Predicted Interactions

Coadministered Drug Class: Drug Name	Effect on Concentration	Clinical Comment
Antiarrhythmic: Dofetilide	↑Dofetilide	Coadministration is contraindicated with DOVATO [see Contraindications (4)].
Anticonvulsant: Carbamazepine ^a	↓Dolutegravir	An additional dolutegravir 50-mg dose should be taken, separated by 12 hours from DOVATO [see Dosage and Administration (2.3)].

SMPC & PI

Contraindicated & not recommended

Potential Interaction
Dolutegravir (DTG)
Etravirine (ETR)

Quality of evidence: High ⓘ

Potential Interaction
Dolutegravir (DTG)
Phenobarbital (Phenobarbitone)

Quality of evidence: Very Low ⓘ

> Br J Clin Pharmacol. 2023 Mar;89(3):1216-1221. doi: 10.1111/bcp.15604. Epub 2022 Dec 1.

Drug-drug interaction between rifabutin and dolutegravir: A population pharmacokinetic model

Aida N Kawuma ¹, Roeland E Wasmann ¹, Kelly E Dooley ², Gary Maartens ¹, Paolo Denti ¹

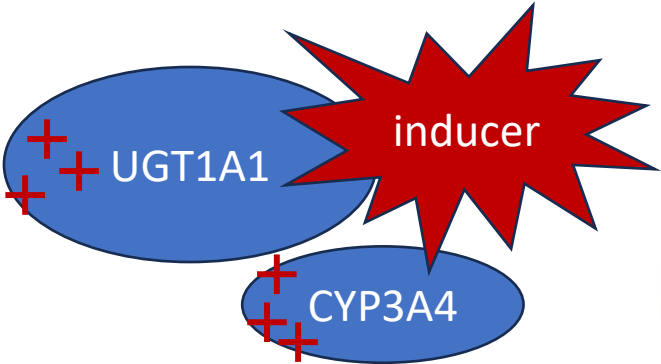
Case Reports

> J Infect Chemother. 2018 Jun;24(6):476-478. doi: 10.1016/j.jiac.2017.12.022.

Epub 2018 Feb 4.

A potential drug interaction between phenobarbital and dolutegravir: A case report

Shinichi Hikasa ¹, Akihiro Sawada ², Hitomi Seino ³, Shota Shimabukuro ⁴, Kyoko Hideta ⁴, Noriko Uwa ³, Satoshi Higasa ², Tazuko Tokugawa ², Takeshi Kimura ⁴



3:32 [I came to a conclusion:] popping a Quaalude + waiting over 2 hours + drinking a beer = F U C K E D U P. The Quaalude is a cemetery, and I'm a tombstone.



HIV Drug Interactions



UNIVERSITY OF
LIVERPOOL



TherEx
Centre for Experimental Therapeutics

Interaction Checker →

Apps ▼

[About Us](#)

[Interaction Checkers](#)

[Prescribing Resources](#)

[Videos](#)

[Site News](#)

[Contact Us](#)

[Support Us](#)

Follow us on Bluesky [@hivinteractions](#) for interaction news and for the latest additions and changes to the website

Interaction Checker

Access our free, comprehensive and user-friendly drug interaction charts

English

Español

*Traducciones proporcionadas por
Fundación Huésped*

Français

*Traductions fournies par Actions
Traitements*

Português

*Traduções fornecidas pela Fundação
Huésped*

If a drug is not listed below it cannot automatically be assumed it is safe to coadminister

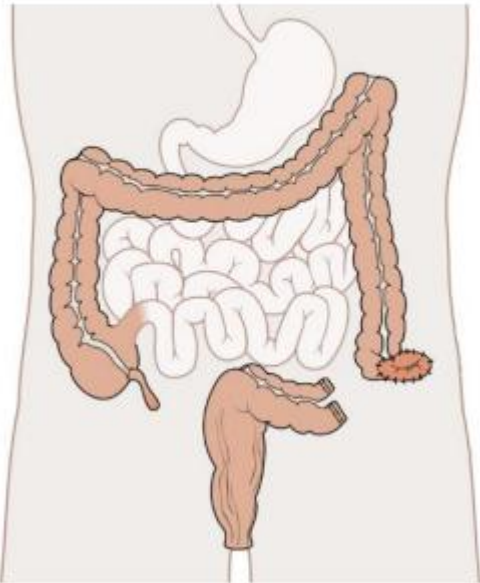
HIV Drugs	Comedications	Drug Interactions
Search HIV drugs...	simvas	☐ Check HIV/ HIV drug interactions
☒ A-Z ☐ Class ☐ Trade	☒ A-Z ☐ Class ☐ Trade	Switch to table view
☐ Cabotegravir/rilpivirine [long acting] (CAB/RPV LA)	☒ Simvastatin	Reset Checker
☐ Dapivirine (DPV, PrEP)	☒ Simvastatin	Do Not Coadminister
☐ Darunavir + ritonavir (DRV/r)		Darunavir/cobicistat (DRV/c)
☒ Darunavir/cobicistat (DRV/c)		Simvastatin
		Look for alternatives →
		More Info ▾



Treatment selectors Prescribing and dosing guidance

	ATV/c	ATV/r	DRV/c	DRV/r	LPV/r
First line and Second line Drugs					
Amikacin	↔	↔	↔	↔	↔
Bedaquiline	↑♥	↑♥	↑	↑	↑62%♥
Capreomycin	↔	↔	↔	↔	↔
Clofazimine	↔	↔	↔	↔	↔
Cycloserine	↔	↔	↔	↔	↔

Colostomy/Ileostomy
No delivery to the rectal stump



Interaction Summary Tables

	ATV	ATV/c	ATV/r
ADHD Agents			
Atomoxetine	■	■	■
Dexamfetamine (dextroamphetamine)	■	■	■
Dexmethylphenidate	◆	◆	◆
Guanfacine	■	■	■
Lisdexamfetamine	■	■	■
Methylphenidate	◆	◆	◆
Serdexmethylphenidate	◆	◆	◆

Abacavir + Lamivudine	Kivexa Epzicom	Tablets should not be crushed as separate abacavir and lamivudine solutions are available. [EACS Guidelines, version 13.0, 2025]	Oral Solution Separate abacavir and lamivudine solutions are available.
-----------------------	-------------------	---	--



Liverpool Masterclass in Antiviral Pharmacology

Conference symposia

24F living with schizophrenia and HIV
On DTG/ABC/3TC and quetiapine - no interactions
Develops focal seizures
Keppra ineffective, lamotrigine some effect, add CBZ
• DTG/CBZ reduces DTG levels, needs TDM and inc DTG dose

Drug	Interaction
Carbamazepine	Decreases DTG levels
Contraceptives	Decreases DTG levels
Efavirenz	Increases DTG levels
Emtricitabine	No interaction
Ethosuximide	No interaction
Gabapentin	No interaction
Lacosamide	No interaction
Lamotrigine	Increases DTG levels
Levetiracetam	No interaction
Oxcarbazepine	Decreases DTG levels
Phenobarbital (Phenobarbital)	Decreases DTG levels
Phenytoin	Decreases DTG levels
Pregabalin	No interaction
Propranolol	No interaction
Sodium valproate	Increases DTG levels
Tagamet	No interaction
Topiramate	Increases DTG levels
Valproic acid (Sodium valproate)	Increases DTG levels
Valproic acid	Increases DTG levels

Lauren Walker

1.1 What is Pharmacokinetics? - Professor David Back
Liverpool Infection Pharmacology

PHARMACOKINETICS (PK)
What the body is doing to the drug

PHARMACODYNAMICS (PD)
What the drug is doing to the body

UNIVERSITY OF LIVERPOOL

Pharmacology course



PrEP Drug Interactions

NEW



UNIVERSITY OF
LIVERPOOL



TherEx

Centre for Experimental Therapeutics

About Us

Interaction Checker

PrEP Information

Site News

Contact Us

This website is currently in beta - we would welcome your feedback about content and design



Interaction Checker

Access our free, comprehensive and user-friendly drug interaction charts

www.nhivna.org

www.prep-druginteractions.org



No Interaction Expected

Lenacapavir for PrEP

Estradiol

Quality of evidence: Very Low

Summary:

Coadministration with estradiol as hormone replacement therapy (HRT) has not been studied. Estradiol is metabolized by CYP3A4, CYP1A2 and is glucuronidated. Lenacapavir is mainly cleared as unchanged drug and is a moderate inhibitor of CYP3A4 and could potentially increase estradiol, although to an extent that does not require dose adjustment. Observed data does not indicate clinically relevant changes in the exposure of estradiol (as a gender affirming hormone).

Description:

Observed data does not indicate clinically relevant changes in the exposure of estradiol (as a gender affirming hormone). No dose adjustment of this hormone is required.

Yeytuo GB Summary of Product Characteristics Gilead Sciences Ltd, December 2025.

Yeytuo EU Summary of Product Characteristics Gilead Sciences, August 2025.

OK to take together

Lenacapavir

Estradiol

More Information:

These medicines can be taken together.

Potential Interaction

Emtricitabine/Tenofovir-DF (FTC/TDF)

Ibuprofen

Quality of evidence: Very Low

Summary:

Coadministration has not been studied. Ibuprofen is metabolised mainly by CYP2C9 and to a less extent by CYP2C8 and direct glucuronidation. Emtricitabine and tenofovir are eliminated renally. No interaction is expected with emtricitabine. However, ibuprofen could potentially decrease renal elimination of tenofovir as in vitro data suggest that ibuprofen inhibits the renal transporters OAT1 (moderate inhibition) and MRP4 which are involved in tenofovir excretion. No a priori dose adjustment is recommended. Coadministration could potentially result in increased risk of nephrotoxicity. The risk is increased if an NSAID is used for a long duration, if the patient has a pre-existing renal dysfunction, has a low body weight, or receives other drugs that may increase tenofovir exposure. Coadministration could potentially result in increased risk of nephrotoxicity. Cases of acute renal failure after initiation of high dose or multiple NSAIDs have been reported in patients treated with tenofovir-DF and with risk factors for renal dysfunction. Alternatives to NSAIDs should be considered in patients at risk for renal

!

Talk to your PrEP prescriber

Emtricitabine + Tenofovir-DF

Ibuprofen

More Information:

There is an increased risk of kidney related side effects when taking ibuprofen with your PrEP medicine. Speak to your doctor or PrEP prescriber as alternatives to ibuprofen should be considered.

Do Not Coadminister

Cabotegravir PrEP [long acting] (CAB LA, PrEP)

Rifampicin (Rifampin)

Quality of evidence: Very Low

Summary:

Coadministration with intramuscular cabotegravir has not been studied. Similarly to oral cabotegravir, concomitant administration with rifampicin is contraindicated due to the potential for loss of therapeutic effect and development of resistance. Coadministration of rifampicin (600 mg once daily) and oral cabotegravir (30 mg once daily) decreased cabotegravir Cmax by 6%, AUC by 59% and oral clearance was increased by 2.4-fold. Using PBPK modelling, rifampicin was predicted to reduce the exposure of long-acting intramuscular cabotegravir by 61%. The interaction with rifampicin was not overcome by shortening the dosing interval of intramuscular cabotegravir.

Description:

Coadministration is contraindicated with Apretude due to potential for significant decreases in plasma concentration of Apretude due to induction of

Switch to T

Do not take together

Cabotegravir [injection]

Rifampicin

More Information:

These medicines should not be taken together. Taking them together would reduce the effectiveness of your PrEP medicine.

Keep in contact

[Contact Us](#)



[Feedback Form](#)

[Suggest a Drug](#)



 HIV Drug Interactions

 LIVERPOOL

 TherEx

Interaction Checker

Apps

[About Us](#) [Interaction Checkers](#) [Prescribing Resources](#) [Videos](#) [Site News](#) [Contact Us](#) [Support Us](#)

Website updates - February and March 2026

Tuesday 31 March 2026

The last two months have seen the addition of three new comedications, along with the updating of several prescribing resources to include the new additions and revisions to existing interactions.

New comedications

Berberine (Herbals/Supplements/Vitamins)

Deutivacaftor/Tezacaftor/Vasacaftor (Cystic Fibrosis Agents)

Vonoprazan (Gastrointestinal Agents)

Revised interaction classifications (colour changes)

The following interactions with encorafenib have been updated due to a new study showing encorafenib to be a strong inducer of CYP3A4:

1 Green to Red - Doravirine, doravirine/amivudine/tenofovir-DP, bictegravir/emtricitabine/tenofovir alafenamide, cabotegravir (oral), cabotegravir PrEP.

1 Yellow to Red - Rilpivirine (alone and in combinations), fostemsavir

1 Amber to Red - Lenacapavir (as ART and PrEP)

1 Green to Amber - Dolutegravir (alone and non-rilpivirine combinations), maraviroc

Updated Prescribing Resources

Treatment Selector for Diabetes Therapies

Interaction Summary Tables for PIs, NNRTIs, NRTIs, Integrase Inhibitors, Entry, Attachment & Capsid Inhibitors, and ARVs for PrEP

Back



Sign up for our newsletter



Pinned

HIV Drug Interactions @hivinteractions.bsky.social · 9mo

 **BREAKING:** We now list drug interactions for lenacapavir for PrEP on the HIV Drug Interactions checker. Click below to read our news item and how these interactions differ:

hiv-druginteractions.org/site_updates...

2

6

@hivinteractions.bsky.social

Thanks!!

- Liverpool Drug Interactions Team

Prof David Back
Prof Saye Khoo
Prof Catia Marzolini
Prof Lauren Walker

Dr Fiona Marra
Alison Boyle
Sara Gibbons
Justin Chiong
Jasmine Martin
Daniel Seddon

- Steering Committee

Prof Andrew Freedman
Simon Collins
Heather Leake
Prof Kim Scarsi
Dr Jonathon Schapiro

The wider HIV community <3



Happy Pride month!!!